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Abstract

A process for producing multicoat paint systems comprising

- 5 (A) one first color and/or effect coat,
(B) one second color and/or effect coat, and
(C) one transparent coat,

by applying aqueous coating materials (A) and (B) and a coating material
10 (C) to

- (i) unprimed substrates or
(ii) substrates coated with an uncured primer (G) or
(iii) substrates coated with a cured primer (G)

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and jointly curing the wet films (A), (B), and (C) and also where
appropriate the uncured primer (G), where the coating material (A)
comprises

- 20 (a.1) a (co)polymer or graft copolymer preparable by (co)polymerizing a
monomer (a.1.1) containing a (co)polymerizable, olefinically
unsaturated group or at least two comonomers (a.1.1) in the
presence of a polyurethane (a.1.2) selected from the group
consisting of polyurethanes containing no copolymerizable,
25 olefinically unsaturated groups and polyurethanes containing lateral
and/or copolymerizable, olefinically unsaturated groups, and
optionally carrying out partial or complete neutralization,

- (a.2) color and/or effect pigments,

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(a.3) UV-absorbing pigments, and

(a.4) talc.